THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY (DICT/JAN 2012/S-EV)

ECT 2104: INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY (ICT)

END OF SEMESTER EXAMIANTION

SERIES: APRIL 2012
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
 - *Answer Booklet*
This paper consist of **FIVE** questions in **TWO** sections **A** & **B**
Answer question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

Question One (30 Marks)

a) Describe any **THREE** function of Control Unit (6 marks)
b) List any **THREE** functions of main memory (6 marks)
c) Explain any **THREE** functions of Operating System (6 marks)
d) List any **FOUR** factors you would consider when purchasing software package (4 marks)
e) List any **THREE** advantages and **THREE** disadvantages of application software (6 marks)
f) Explain the use of Magnetic Ink Character Reader (MICR) (2 marks)

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

a) Explain the term 'Ergonomics' (2 marks)

b) Taking health issues into considerations, explain the locators you would consider when selecting the following equipment:
    (i)   Visual Display Unit
    (ii)   Keyboard
    (iii)   Furniture used by data entry clerk (9 marks)

c) Explain the factors to consider when selecting input devices (1 mark)

Question Three (20 marks)

a) Explain the following terms:
    (i)   Computer Virus
    (ii)   Phishing
    (iii)   Worm
    (iv)   Trojan horse (8 marks)

b) Describe any **THREE** ways to guard data and software against fraud (6 marks)

c) List any **TWO** ways of preventing viruses from infecting a computer (1 mark)

Question Four (20 marks)

a) Describe any **THREE** ways of reducing physical threat to hardware and data (6 marks)

b) Distinguish the following:
    (i)   Information Technology (IT) and information Communication Technology (ICT)
    (ii)   Data and Information (2 marks)

c) Explain the term 'Convergence' as applied to ICT (2 marks)

d) State **THREE** advantages of using and **TWO** disadvantages of using computer (5 marks)

Question Five (20 marks)

a) List any **THREE** hardware and **THREE** software factors to consider when procuring a computer system   (6 marks)

b) Explain any **THREE** reasons why employees would resist introduction of computerization in an organization.   (6 marks)

c) Sketch a block diagram of computer architecture to show the relationship between various components   (3 marks)